

Appl. No. 10/596,859  
Amdt. Dated June 15, 2009  
Reply to Office action of April 14, 2009  
Attorney Docket No. P19103-US1  
EUS/GJ/P/09-1139

**Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-13. (Cancelled)

14. (Currently Amended) A method in a multicarrier wireless telecommunication system for radio communication between base stations and mobile user stations, comprising the step of:

detecting a presence of an acquisition channel by a mobile station for mobile station search purposes;

transmitting information signals, over the detected acquisition channel, relating to size and location of operational bands of the radio spectrum used by the system;

wherein the information ~~signal comprises~~ signals comprise information of the bandwidth and location in the spectrum of the operational bands as part of the information in one or more sub carriers of the bands.

15. (Previously Presented) The method of claim 14, wherein the location information is explicitly signalled or implicitly derivable from synchronisation signals.

16. (Previously Presented) The method of claim 14, wherein the signalling is received by the mobile user stations which detect the information about available blocks of spectrum and stores it into a memory.

17. (Previously Presented) The method of claim 14, wherein the size information is repeated regularly in subsequent carriers, or sub-carriers, of the operational band.

18. (Previously Presented) The method of claim 14, wherein the information comprises the start and stop frequencies of the band and, thereby, the bandwidth.

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19. (Previously Presented) The method of claim 14, wherein the information comprises an identifying number representing the size and location of available operational bands.
20. (Previously Presented) The method of claim 16, wherein the mobile user stations repeatedly scan the information signalling for updating its memory about changing conditions relating to the operational bands.
21. (Previously Presented) The method of claim 14, wherein the operational bands belong to different network operators and wherein the subscribers of an operator may partly or wholly have access to the operational bands of another operator.
22. (Previously Presented) The method of claim 14, wherein a mobile user station requests access to a multicarrier band with  $N$  carriers for downloading information, comprising the steps of:
- the mobile station searching the radio interface for an  $N$ -carrier band by looking for location and size information;
  - the communication system assigning a free band with  $N+\epsilon$  carriers to the mobile upon the request where  $\epsilon$  is zero or a small number compared to  $N$ ; and,
  - the mobile station downloads the information.
23. (Currently Amended) A wireless multicarrier telecommunication system, comprising:
- a traffic controlling centre; and,
  - transmitting units controlled by said traffic controlling centre, wherein the transmitting units transmit information signals relating to available resources of the system to mobile units on an acquisition channel, wherein the information signals comprise information about the size and location of available bandwidth in a number of operational bands allocated to the system;

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whereby a mobile unit detects a presence of the acquisition channel and receives the information signal signals from the transmitting units over the detected acquisition channel.

24. (Previously Presented) A base station node in a multicarrier telecommunication system, comprising:

transmitting means for transmitting information relating to properties of available operational bands of the spectrum allocated to the system, wherein the transmitting means include means for transferring data related to size and location of the available operational bands on an acquisition channel.

25. (Previously Presented) A mobile station node in a multicarrier telecommunication system, comprising:

Means for detecting an acquisition channel;

means for receiving information relating to size and location of available operational bands in terms of size and location in the radio spectrum from the acquisition channel.

26. (Previously Presented) The mobile station of claim 25, wherein said mobile station further comprises memory means for storing the operational band relating data.

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